

P680 PC00 Sequence Listing ST25.txt
SEQUENCE LISTING

<110> Leukotech A/S

<120> Bactericidal, anti-apoptotic, po-inflammatory and anti-inflammatory peptides of heparin binding protein (HBP)

<130> P680 PC00

<160> 613

<170> PatentIn version 3.1

<210> 1

<211> 225

<212> PRT

<213> Homo sapiens

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Ala Arg Phe Val Met Thr Ala Ala Ser Cys Phe Gln Ser Gln Asn Pro
35 40 45

Gly Val Ser Thr Val Val Leu Gly Ala Tyr Asp Leu Arg Arg Arg Glu
50 55 60

Arg Gln Ser Arg Gln Thr Phe Ser Ile Ser Ser Met Ser Glu Asn Gly
65 70 75 80

Tyr Asp Pro Gln Gln Asn Leu Asn Asp Leu Met Leu Leu Gln Leu Asp
85 90 95

Arg Glu Ala Asn Leu Thr Ser Ser Val Thr Ile Leu Pro Leu Pro Leu
100 105 110

Gln Asn Ala Thr Val Glu Ala Gly Thr Arg Cys Gln Val Ala Gly Trp
115 120 125

P680 PC00 Sequence Listing ST25.txt

Gly Ser Gln Arg Ser Gly Gly Arg Leu Ser Arg Phe Pro Arg Phe Val
130 135 140

Asn Val Thr Val Thr Pro Glu Asp Gln Cys Arg Pro Asn Asn Val Cys
145 150 155 160

Thr Gly Val Leu Thr Arg Arg Gly Gly Ile Cys Asn Gly Asp Gly Gly
165 170 175

Thr Pro Leu Val Cys Glu Gly Leu Ala His Gly Val Ala Ser Phe Ser
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Leu Gly Pro Cys Gly Arg Gly Pro Asp Phe Phe Thr Arg Val Ala Leu
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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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Thr Ile Leu Pro
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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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P680 PC00 Sequence Listing ST25.txt

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Ala Thr Val Glu
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<210> 111

<211> 4

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<400> 111

Thr Val Glu Ala
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<210> 112

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 117-120 of hHBP

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Val Glu Ala Gly
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<210> 113

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 118-121 of hHBP

<400> 113

Glu Ala Gly Thr
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<210> 114

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 119-122 of hHBP

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Ala Gly Thr Arg
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<210> 115

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 120-123 of hHBP

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Gly Thr Arg Cys

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<210> 116

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<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 121-124 of hHBP

<400> 116

Thr Arg Cys Gln

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<210> 117

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 122-125 of hHBP

<400> 117

Arg Cys Gln Val

1

<210> 118

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 123-126 of hHBP

<400> 118

Cys Gln Val Ala

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P680 PC00 Sequence Listing ST25.txt

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Gln Val Ala Gly
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<210> 120

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 125-128 of hHBP

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Val Ala Gly Trp
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<210> 121

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 125-128 of hHBP

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Ala Gly Trp Gly
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<210> 122

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P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 127-130 of hHBP

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Gly Trp Gly Ser

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<210> 123

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<223> Peptide fragment: amino acid residues128-131 of hHBP

<400> 123

Trp Gly Ser Gln

1

<210> 124

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 129-132 of hHBP

<400> 124

Gly Ser Gln Arg

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<210> 125

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 130-133 of hHBP

<400> 125

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Ser Gln Arg Ser
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<210> 126

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<400> 126

Gln Arg Ser Gly
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<210> 127

<211> 4

<212> PRT

<213> Artificial sequence

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Arg Ser Gly Gly
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<210> 128

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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Ser Gly Gly Arg
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<210> 129

<211> 4

P680 PC00 Sequence Listing ST25.txt

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Gly Gly Arg Leu
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<210> 130

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 135-138 of hHBP

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Gly Arg Leu Ser
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<210> 131

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 136-139 of hHBP

<400> 131

Arg Leu Ser Arg
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<210> 132

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

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Leu Ser Arg Phe
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<210> 133

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 138-141 of hHBP

<400> 133

Ser Arg Phe Pro
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<210> 134

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 139-142 of hHBP

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Arg Phe Pro Arg
1

<210> 135

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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Phe Pro Arg Phe
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P680 PC00 Sequence Listing ST25.txt

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<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 141-144 of hHBP

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Pro Arg Phe Val
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<210> 137

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 142-145 of hHBP

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Arg Phe Val Asn
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<210> 138

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 138

Phe Val Asn Val
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<210> 139

<211> 4

<212> PRT

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Val Asn Val Thr
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<210> 140

<211> 4

<212> PRT

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Asn Val Thr Val
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<210> 141

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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Val Thr Val Thr
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<210> 142

<211> 4

<212> PRT

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<220>

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<400> 142

P680 PC00 Sequence Listing ST25.txt

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<210> 143

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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<400> 143

Val Thr Pro Glu
1

<210> 144

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 149-152 of hHBP

<400> 144

Thr Pro Glu Asp
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<210> 145

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 145

Pro Glu Asp Gln
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<210> 146

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 151-154 of hHBP

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Glu Asp Gln Cys
1

<210> 147

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 152-155 of hHBP

<400> 147

Asp Gln Cys Arg
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<210> 148

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 153-156 of hHBP

<400> 148

Gln Cys Arg Pro
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<210> 149

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

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<400> 149

Cys Arg Pro Asn

1

<210> 150

<211> 4

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<223> Peptide fragment: amino acid residues 155-158 of hHBP

<400> 150

Arg Pro Asn Asn

1

<210> 151

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 156-159 of hHBP

<400> 151

Pro Asn Asn Val

1

<210> 152

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 157-160 of hHBP

<400> 152

Asn Asn Val Cys

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P680 PC00 Sequence Listing ST25.txt

<210> 153

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<212> PRT

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<400> 153

Asn Val Cys Thr
1

<210> 154

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 159-162 of hHBP

<400> 154

Val Cys Thr Gly
1

<210> 155

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 160-163 of hHBP

<400> 155

Cys Thr Gly Val
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<210> 156

<211> 4

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P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 161-164 of hHBP

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Thr Gly Val Leu
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<210> 157

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 162-165 of hHBP

<400> 157

Gly Val Leu Thr
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<210> 158

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 163-166 of hHBP

<400> 158

Val Leu Thr Arg
1

<210> 159

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 164-167 of hHBP

<400> 159

P680 PC00 Sequence Listing ST25.txt

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<210> 160

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 165-168 of hHBP

<400> 160

Thr Arg Arg Gly
1

<210> 161

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 166-169 of hHBP

<400> 161

Arg Arg Gly Gly
1

<210> 162

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 167-170 of hHBP

<400> 162

Arg Gly Gly Ile
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<210> 163

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P680 PC00 Sequence Listing ST25.txt

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 168-171 of hHBP

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Gly Gly Ile Cys
1

<210> 164

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 169-172 of hHBP

<400> 164

Gly Ile Cys Asn
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<210> 165

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 170-173 of hHBP

<400> 165

Ile Cys Asn Gly
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<210> 166

<211> 4

<212> PRT

<213> Artificial sequence

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 171-174 of hHBP

<400> 166

Cys Asn Gly Asp

1

<210> 167

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 172-175 of hHBP

<400> 167

Asn Gly Asp Gly

1

<210> 168

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 173-176 of hHBP

<400> 168

Gly Asp Gly Gly

1

<210> 169

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 174-177 of hHBP

<400> 169

Asp Gly Gly Thr

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P680 PC00 Sequence Listing ST25.txt

<210> 170

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 175-178 of hHBP

<400> 170

Gly Gly Thr Pro

1

<210> 171

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 176-179 of hHBP

<400> 171

Gly Thr Pro Leu

1

<210> 172

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 172

Thr Pro Leu Val

1

<210> 173

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

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<400> 173

Pro Leu Val Cys

1

<210> 174

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 179-181 of hHBP

<400> 174

Leu Val Cys Glu

1

<210> 175

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 180-183 of hHBP

<400> 175

Val Cys Glu Gly

1

<210> 176

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 181-184 of hHBP

<400> 176

P680 PC00 Sequence Listing ST25.txt

Cys Glu Gly Leu
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<210> 177

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 182-185 of hHBP

<400> 177

Glu Gly Leu Ala
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<210> 178

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 183-186 of hHBP

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Gly Leu Ala His
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<210> 179

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 184-187 of hHBP

<400> 179

Leu Ala His Gly
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<210> 180

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P680 PC00 Sequence Listing ST25.txt

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 185-188 of hHBP

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Ala His Gly Val
1

<210> 181

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 186-189 of hHBP

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His Gly Val Ala
1

<210> 182

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 187-190 of hHBP

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Gly Val Ala Ser
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<210> 183

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 188-191 of hHBP

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Val Ala Ser Phe
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<210> 184

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 189-192 of hHBP

<400> 184

Ala Ser Phe Ser
1

<210> 185

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 190-193 of hHBP

<400> 185

Ser Phe Ser Leu
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<210> 186

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 191-194 of hHBP

<400> 186

Phe Ser Leu Gly
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P680 PC00 Sequence Listing ST25.txt

<210> 187

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 192-195 of hHBP

<400> 187

Ser Leu Gly Pro
1

<210> 188

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 193-196 of hHBP

<400> 188

Leu Gly Pro Cys
1

<210> 189

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 194-197 of hHBP

<400> 189

Gly Pro Cys Gly
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<210> 190

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 195-198 of hHBP

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Pro Cys Gly Arg

1

<210> 191

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 196-199 of hHBP

<400> 191

Cys Gly Arg Gly

1

<210> 192

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 197-200 of hHBP

<400> 192

Gly Arg Gly Pro

1

<210> 193

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 198-201 of hHBP

<400> 193

P680 PC00 Sequence Listing ST25.txt

Arg Gly Pro Asp
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<210> 194

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 199-202 of hHBP

<400> 194

Gly Pro Asp Phe
1

<210> 195

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 200-203 of hHBP

<400> 195

Pro Asp Phe Phe
1

<210> 196

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 201-204 of hHBP

<400> 196

Asp Phe Phe Thr
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<210> 197

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P680 PC00 Sequence Listing ST25.txt

<212> PRT

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<223> Peptide fragment: amino acid residues 202-205 of hHBP

<400> 197

Phe Phe Thr Arg
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<210> 198

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 203-206 of hHBP

<400> 198

Phe Thr Arg Val
1

<210> 199

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 204-207 of hHBP

<400> 199

Thr Arg Val Ala
1

<210> 200

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 205-208 of hHBP

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Arg Val Ala Leu
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<210> 201

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 206-209 of hHBP

<400> 201

Val Ala Leu Phe
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<210> 202

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 207-210 of hHBP

<400> 202

Ala Leu Phe Arg
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<210> 203

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 208-211 of hHBP

<400> 203

Leu Phe Arg Asp
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P680 PC00 Sequence Listing ST25.txt

<210> 204

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 209-212 of hHBP

<400> 204

Phe Arg Asp Trp
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<210> 205

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 210-213 of hHBP

<400> 205

Arg Asp Trp Ile
1

<210> 206

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 211-214 of hHBP

<400> 206

Asp Trp Ile Asp
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<210> 207

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 212-215 of hHBP

<400> 207

Trp Ile Asp Gly
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<210> 208

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 213-216 of hHBP

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Ile Asp Gly Val
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<210> 209

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 214-217 of hHBP

<400> 209

Asp Gly Val Leu
1

<210> 210

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 215-218 of hHBP

P680 PC00 Sequence Listing ST25.txt

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Gly Val Leu Asn
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<210> 211

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 216-219 of hHBP

<400> 211

Val Leu Asn Asn
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<210> 212

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 217-220 of hHBP

<400> 212

Leu Asn Asn Pro
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<210> 213

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 218-221 of hHBP

<400> 213

Asn Asn Pro Gly
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<210> 214

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 219-222 of hHBP

<400> 214

Asn Pro Gly Pro

1

<210> 215

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 220-223 of hHBP

<400> 215

Pro Gly Pro Gly

1

<210> 216

<211> 4

<212> PRT

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<400> 216

Gly Pro Gly Pro

1

<210> 217

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 222-225 of hHBP

<400> 217

Pro Gly Pro Ala
1

<210> 218

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 3-6 of hHBP

<400> 218

Gly Gly Arg Lys
1

<210> 219

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 4-7 of hHBP

<400> 219

Gly Arg Lys Ala
1

<210> 220

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 5-8 of hHBP

<400> 220

Arg Lys Ala Arg
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P680 PC00 Sequence Listing ST25.txt

<210> 221

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 6-9 of hHBP

<400> 221

Lys Ala Arg Pro
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<210> 222

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 3-6 of pHBP

<400> 222

Gly Gly Arg Arg
1

<210> 223

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 223

Gly Arg Arg Ala
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<210> 224

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 224

Arg Arg Ala Gln
1

<210> 225

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 6-9 of pHBP

<400> 225

Arg Ala Gln Pro
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<211> 4

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<223> Peptide fragment: amino acid residues 7-10 of pHBP

<400> 226

Ala Gln Pro Gln
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<210> 227

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 8-11 of pHBP

P680 PC00 Sequence Listing ST25.txt

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Gln Pro Gln Glu
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<210> 228

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<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 9-12 of pHBP

<400> 228

Pro Gln Glu Phe
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<210> 229

<211> 4

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<223> Peptide fragment: amino acid residues 10-13 of pHBP

<400> 229

Gln Glu Phe Pro
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<210> 230

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<223> Peptide fragment: amino acid residues 11-14 of pHBP

<400> 230

Glu Phe Pro Phe
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<210> 231

P680 PC00 Sequence Listing ST25.txt

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Phe Pro Phe Leu
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<223> Peptide fragment: amino acid residues 13-16 of pHBP

<400> 232

Pro Phe Leu Ala
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<210> 233

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<223> Peptide fragment: amino acid residues 21-24 of pHBP

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Gln Gly Arg Pro
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P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 22-25 of pHBP

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Gly Arg Pro Phe

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<210> 235

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<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 23-26 of pHBP

<400> 235

Arg Pro Phe Cys

1

<210> 236

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 24-27 of pHBP

<400> 236

Pro Phe Cys Ala

1

<210> 237

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 25-28 of pHBP

<400> 237

Phe Cys Ala Gly

1

P680 PC00 Sequence Listing ST25.txt

<210> 238

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 26-29 of pHBP

<400> 238

Cys Ala Gly Ala
1

<210> 239

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 27-30 of pHBP

<400> 239

Ala Gly Ala Leu
1

<210> 240

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<220>

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Gly Ala Leu Val
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<210> 241

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<220>

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<400> 241

Ala Leu Val His
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<210> 242

<211> 4

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<220>

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<400> 242

Leu Val His Pro
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<210> 243

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 31-34 of pHBP

<400> 243

Val His Pro Arg
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<210> 244

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<212> PRT

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<223> Peptide fragment: amino acid residues 32-35 of pHBP

P680 PC00 Sequence Listing ST25.txt

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His Pro Arg Phe
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<210> 245

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<220>

<223> Peptide fragment: amino acid residues 17-20 of pHBP

<400> 245

Ser Ile Gln Lys
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<210> 246

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 34-37 of pHBP

<400> 246

Arg Phe Val Leu
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<210> 247

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 35-38 of pHBP

<400> 247

Phe Val Leu Thr
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<210> 248

P680 PC00 Sequence Listing ST25.txt

<211> 4

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<220>

<223> Peptide fragment: amino acid residues 36-39 of pHBP

<400> 248

Val Leu Thr Ala

1

<210> 249

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 37-40 of pHBP

<400> 249

Leu Thr Ala Ala

1

<210> 250

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 41-44 of pHBP

<400> 250

Ser Cys Phe Arg

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<210> 251

<211> 4

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P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 42-45 of pHBP

<400> 251

Cys Phe Arg Gly
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<210> 252

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 43-46 of pHBP

<400> 252

Phe Arg Gly Lys
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<210> 253

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 44-47 of pHBP

<400> 253

Arg Gly Lys Asn
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<210> 254

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 45-48 of pHBP

<400> 254

Gly Lys Asn Ser
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P680 PC00 Sequence Listing ST25.txt

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<211> 4

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<223> Peptide fragment: amino acid residues 46-49 of pHBP

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Lys Asn Ser Gly
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<210> 256

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 47-50 of pHBP

<400> 256

Asn Ser Gly Ser
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<210> 257

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 48-51 of pHBP

<400> 257

Ser Gly Ser Ala
1

<210> 258

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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<400> 258

Gly Ser Ala Ser
1

<210> 259

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 50-53 of pHBP

<400> 259

Ser Ala Ser Val
1

<210> 260

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 51-54 of pHBP

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Ala Ser Val Val
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<210> 261

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 52-55 of pHBP

P680 PC00 Sequence Listing ST25.txt

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Ser Val Val Leu
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<210> 262

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 59-62 of pHBP

<400> 262

Asp Leu Arg Gln
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<210> 263

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 60-63 of pHBP

<400> 263

Leu Arg Gln Gln
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<210> 264

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 61-64 of pHBP

<400> 264

Arg Gln Gln Glu
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<210> 265

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 62-65 of pHBP

<400> 265

Gln Gln Glu Gln
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<210> 266

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 63-66 of pHBP

<400> 266

Gln Glu Gln Ser
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<210> 267

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 64-67 of pHBP

<400> 267

Glu Gln Ser Arg
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<210> 268

<211> 4

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P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 18-21 of pHBP

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Ile Gln Lys Gln
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<210> 269

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 70-73 of pHBP

<400> 269

Phe Ser Ile Arg
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<210> 270

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 71-74 of pHBP

<400> 270

Ser Ile Arg Ser
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<210> 271

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 72-75 of pHBP

<400> 271

P680 PC00 Sequence Listing ST25.txt

Ile Arg Ser Ile
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<210> 272

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 73-76 of pHBP

<400> 272

Arg Ser Ile Ser
1

<210> 273

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 74-77 of pHBP

<400> 273

Ser Ile Ser Gln
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<210> 274

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 75-78 of pHBP

<400> 274

Ile Ser Gln Asn
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<210> 275

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 76-79 of pHBP

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Ser Gln Asn Gly
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<210> 276

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 77-80 of pHBP

<400> 276

Gln Asn Gly Tyr
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<210> 277

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 80-83 of pHBP

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Tyr Asp Pro Arg
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<210> 278

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 81-84 of PHBP

<400> 278

Asp Pro Arg Gln

1

<210> 279

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 82-85 of PHBP

<400> 279

Pro Arg Gln Asn

1

<210> 280

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 83-86 of PHBP

<400> 280

Arg Gln Asn Leu

1

<210> 281

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 86-89 of PHBP

<400> 281

Leu Asn Asp Val

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P680 PC00 Sequence Listing ST25.txt

<210> 282

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 87-90 of pHBP

<400> 282

Asn Asp Val Leu
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<210> 283

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 88-91 of pHBP

<400> 283

Asp Val Leu Leu
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<210> 284

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 89-92 of pHBP

<400> 284

Val Leu Leu Leu
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<210> 285

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 90-93 of pHBP

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Leu Leu Leu Gln
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<210> 286

<211> 4

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<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 96-99 of pHBP

<400> 286

Arg Glu Ala Arg
1

<210> 287

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 97-100 of pHBP

<400> 287

Glu Ala Arg Leu
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<210> 288

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 98-101 of pHBP

<400> 288

P680 PC00 Sequence Listing ST25.txt

Ala Arg Leu Thr
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<210> 289

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 99-102 of pHBP

<400> 289

Arg Leu Thr Pro
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<210> 290

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 100-103 of pHBP

<400> 290

Leu Thr Pro Ser
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<210> 291

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 101-104 of pHBP

<400> 291

Thr Pro Ser Val
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<210> 292

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 102-105 of pHBP

<400> 292

Pro Ser Val Ala
1

<210> 293

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 103-106 of pHBP

<400> 293

Ser Val Ala Leu
1

<210> 294

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 104-107 of pHBP

<400> 294

Val Ala Leu Val
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<210> 295

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 105-108 of pHBP

<400> 295

Ala Leu Val Pro

1

<210> 296

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 106-109 of pHBP

<400> 296

Leu Val Pro Leu

1

<210> 297

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 107-110 of pHBP

<400> 297

Val Pro Leu Pro

1

<210> 298

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 108-111 of pHBP

<400> 298

Pro Leu Pro Pro

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P680 PC00 Sequence Listing ST25.txt

<210> 299

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 109-112 of pHBP

<400> 299

Leu Pro Pro Gln
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<210> 300

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 110-113 of pHBP

<400> 300

Pro Pro Gln Asn
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<210> 301

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 111-114 of pHBP

<400> 301

Pro Gln Asn Ala
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<210> 302

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 112-115 of pHBP

<400> 302

Ala Gly Thr Asn
1

<210> 303

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 113-116 of pHBP

<400> 303

Gly Thr Asn Cys
1

<210> 304

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 114-117 of pHBP

<400> 304

Thr Asn Cys Gln
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<210> 305

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 121-124 of pHBP

<400> 305

P680 PC00 Sequence Listing ST25.txt

Asn Cys Gln Val
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<210> 306

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 126-129 of pHBP

<400> 306

Gly Trp Gly Thr
1

<210> 307

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 127-130 of pHBP

<400> 307

Trp Gly Thr Gln
1

<210> 308

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 128-131 of pHBP

<400> 308

Gly Thr Gln Arg
1

<210> 309

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 129-132 of pHBP

<400> 309

Thr Gln Arg Leu
1

<210> 310

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 130-133 of pHBP

<400> 310

Gln Arg Leu Arg
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<210> 311

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 131-134 of pHBP

<400> 311

Arg Leu Arg Arg
1

<210> 312

<211> 4

<212> PRT

<213> Artificial sequence

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 132-135 of pHBP

<400> 312

Leu Arg Arg Leu

1

<210> 313

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 133-136 of pHBP

<400> 313

Arg Arg Leu Phe

1

<210> 314

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 134-137 of pHBP

<400> 314

Arg Leu Phe Ser

1

<210> 315

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 135-138 of pHBP

<400> 315

Leu Phe Ser Arg

1

P680 PC00 Sequence Listing ST25.txt

<210> 316

<211> 4

<212> PRT

<213> Artificial sequence

<220>

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<400> 316

Phe Ser Arg Phe
1

<210> 317

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 139-142 of pHBP

<400> 317

Phe Pro Arg Val
1

<210> 318

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 140-143 of pHBP

<400> 318

Pro Arg Val Leu
1

<210> 319

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 141-144 of pHBP

<400> 319

Arg Val Leu Asn

1

<210> 320

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 142-145 of pHBP

<400> 320

Val Leu Asn Val

1

<210> 321

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 143-146 of pHBP

<400> 321

Leu Asn Val Thr

1

<210> 322

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 146-149 of pHBP

<400> 322

P680 PC00 Sequence Listing ST25.txt

Thr Val Thr Ser
1

<210> 323

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 147-150 of pHBP

<400> 323

Val Thr Ser Asn
1

<210> 324

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 148-151 of pHBP

<400> 324

Thr Ser Asn Pro
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<210> 325

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 149-152 of pHBP

<400> 325

Ser Asn Pro Cys
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<210> 326

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 150-153 of pHBP

<400> 326

Asn Pro Cys Leu

1

<210> 327

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 151-154 of pHBP

<400> 327

Pro Cys Leu Pro

1

<210> 328

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 152-155 of pHBP

<400> 328

Cys Leu Pro Arg

1

<210> 329

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 153-156 of pHBP

<400> 329

Leu Pro Arg Asp
1

<210> 330

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 154-157 of pHBP

<400> 330

Pro Arg Asp Met
1

<210> 331

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 155-158 of pHBP

<400> 331

Arg Asp Met Cys
1

<210> 332

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 156-159 of pHBP

<400> 332

Asp Met Cys Ile
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P680 PC00 Sequence Listing ST25.txt

<210> 333

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 160 of pHBP

<400> 333

Met Cys Ile Gly
1

<210> 334

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 158-161 of pHBP

<400> 334

Cys Ile Gly Val
1

<210> 335

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 159-162 of pHBP

<400> 335

Ile Gly Val Phe
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<210> 336

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 160-163 of pHBP

<400> 336

Gly Val Phe Ser

1

<210> 337

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 161-164 of pHBP

<400> 337

Val Phe Ser Arg

1

<210> 338

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 162-165 of pHBP

<400> 338

Phe Ser Arg Arg

1

<210> 339

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 163-166 of pHBP

<400> 339

P680 PC00 Sequence Listing ST25.txt

Ser Arg Arg Gly
1

<210> 340

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 164-167 of pHBP

<400> 340

Arg Arg Gly Arg
1

<210> 341

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 165-168 of pHBP

<400> 341

Arg Gly Arg Ile
1

<210> 342

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 166-169 of pHBP

<400> 342

Gly Arg Ile Ser
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<210> 343

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 167-170 of pHBP

<400> 343

Arg Ile Ser Gln
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<210> 344

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 168-171 of pHBP

<400> 344

Ile Ser Gln Gly
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<210> 345

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 169-172 of pHBP

<400> 345

Ser Gln Gly Asp
1

<210> 346

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 170-173 of pHBP

<400> 346

Gln Gly Asp Arg
1

<210> 347

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 171-174 of pHBP

<400> 347

Gly Asp Arg Gly
1

<210> 348

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 172-175 of pHBP

<400> 348

Asp Arg Gly Thr
1

<210> 349

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 173-176 of pHBP

<400> 349

Arg Gly Thr Pro
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P680 PC00 Sequence Listing ST25.txt

<210> 350

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 177-180 of pHBP

<400> 350

Leu Val Cys Asn
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<210> 351

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 178-181 of pHBP

<400> 351

Val Cys Asn Gly
1

<210> 352

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 179-182 of pHBP

<400> 352

Cys Asn Gly Leu
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<210> 353

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 180-183 of pHBP

<400> 353

Asn Gly Leu Ala
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<210> 354

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues181-184 of pHBP

<400> 354

Gly Leu Ala Gln
1

<210> 355

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 182-185 of pHBP

<400> 355

Leu Ala Gln Gly
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<210> 356

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 183-186 of pHBP

<400> 356

P680 PC00 Sequence Listing ST25.txt

Ala Gln Gly Val
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<210> 357

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 184-187 of pHBP

<400> 357

Gln Gly Val Ala
1

<210> 358

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 187-190 of pHBP

<400> 358

Ala Ser Phe Leu
1

<210> 359

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 188-191 of pHBP

<400> 359

Ser Phe Leu Arg
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<210> 360

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 189-192 of pHBP

<400> 360

Phe Leu Arg Arg
1

<210> 361

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 19-22 of pHBP

<400> 361

Gln Lys Gln Gly
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<210> 362

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 191-194 of pHBP

<400> 362

Arg Arg Arg Phe
1

<210> 363

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 192-195 of pHBP

<400> 363

Arg Arg Phe Arg
1

<210> 364

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 193-196 of pHBP

<400> 364

Arg Phe Arg Arg
1

<210> 365

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 194-197 of pHBP

<400> 365

Phe Arg Arg Ser
1

<210> 366

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 195-198 of pHBP

<400> 366

Arg Arg Ser Ser
1

P680 PC00 Sequence Listing ST25.txt

<210> 367

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 196-199 of pHBP

<400> 367

Arg Ser Ser Gly
1

<210> 368

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 197-200 of pHBP

<400> 368

Ser Ser Gly Phe
1

<210> 369

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 198-201 of pHBP

<400> 369

Ser Gly Phe Phe
1

<210> 370

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 199-202 of pHBP

<400> 370

Gly Phe Phe Thr
1

<210> 371

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-23 of pHBP

<400> 371

Lys Gln Gly Arg
1

<210> 372

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 206-209 of pHBP

<400> 372

Leu Phe Arg Asn
1

<210> 373

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 207-210 of pHBP

<400> 373

P680 PC00 Sequence Listing ST25.txt

Phe Arg Asn Trp
1

<210> 374

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 208-211 of pHBP

<400> 374

Arg Asn Trp Ile
1

<210> 375

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 209-212 of pHBP

<400> 375

Asn Trp Ile Asp
1

<210> 376

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 210-213 of pHBP

<400> 376

Trp Ile Asp Ser
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<210> 377

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 211-214 of pHBP

<400> 377

Ile Asp Ser Val
1

<210> 378

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 212-214 of pHBP

<400> 378

Asp Ser Val Leu
1

<210> 379

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 213-216 of pHBP

<400> 379

Ser Val Leu Asn
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<210> 380

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 216-219 of pHBP

<400> 380

Asn Asn Pro Pro
1

<210> 381

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 3-6 of hNLE

<400> 381

Gly Gly Arg Arg
1

<210> 382

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 4-7 of hNLE

<400> 382

Gly Arg Arg Ala
1

<210> 383

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 5-8 of hNLE

<400> 383

Arg Arg Ala Arg
1

P680 PC00 Sequence Listing ST25.txt

<210> 384

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 6-9 of hNLE

<400> 384

Arg Ala Arg Pro
1

<210> 385

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 7-10 of hNLE

<400> 385

Ala Arg Pro His
1

<210> 386

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 8-11 of hNLE

<400> 386

Arg Pro His Ala
1

<210> 387

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 9-12 of hNLE

<400> 387

Pro His Ala Trp

1

<210> 388

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 10-13 of hNLE

<400> 388

His Ala Trp Pro

1

<210> 389

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 11-14 of hNLE

<400> 389

Ala Trp Pro Phe

1

<210> 390

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 12-15 of hNLE

P680 PC00 Sequence Listing ST25.txt

<400> 390

Trp Pro Phe Met
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<210> 391

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 13-16 of hNLE

<400> 391

Pro Phe Met Val
1

<210> 392

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 14-17 of hNLE

<400> 392

Phe Met Val Ser
1

<210> 393

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 15-18 of hNLE

<400> 393

Met Val Ser Leu
1

<210> 394

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 16-19 of hNLE

<400> 394

Val Ser Leu Gln
1

<210> 395

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 17-20 of hNLE

<400> 395

Ser Leu Gln Leu
1

<210> 396

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 18-21 of hNLE

<400> 396

Leu Gln Leu Arg
1

<210> 397

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 19-22 of hNLE

<400> 397

Gln Leu Arg Gly
1

<210> 398

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-23 of hNLE

<400> 398

Leu Arg Gly Gly
1

<210> 399

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 21-24 of hNLE

<400> 399

Arg Gly Gly His
1

<210> 400

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 22-25 of hNLE

<400> 400

Gly Gly His Phe
1

P680 PC00 Sequence Listing ST25.txt

<210> 401

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 23-26 of hNLE

<400> 401

Gly His Phe Cys
1

<210> 402

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 25-28 of hNLE

<400> 402

Phe Cys Gly Ala
1

<210> 403

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 26-29 of hNLE

<400> 403

Cys Gly Ala Thr
1

<210> 404

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 27-30 of hNLE

<400> 404

Gly Ala Thr Leu
1

<210> 405

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 28-31 of hNLE

<400> 405

Ala Thr Leu Ile
1

<210> 406

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 29-32 of hNLE

<400> 406

Thr Leu Ile Ala
1

<210> 407

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 30-33 of hNLE

P680 PC00 Sequence Listing ST25.txt

<400> 407

Leu Ile Ala Pro
1

<210> 408

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 31-34 of hNLE

<400> 408

Ile Ala Pro Asn
1

<210> 409

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 32-35 of hNLE

<400> 409

Ala Pro Asn Phe
1

<210> 410

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 32-36 of hNLE

<400> 410

Pro Asn Phe Val
1

<210> 411

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 34-37 of hNLE

<400> 411

Asn Phe Val Met

1

<210> 412

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 35-38 of hNLE

<400> 412

Phe Val Met Ser

1

<210> 413

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 36-39 of hNLE

<400> 413

Val Met Ser Ala

1

<210> 414

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 37-40 of hNLE

<400> 414

Met Ser Ala Ala
1

<210> 415

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 38-41 of hNLE

<400> 415

Ser Ala Ala His
1

<210> 416

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 39-42 of hNLE

<400> 416

Ala Ala His Cys
1

<210> 417

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 40-43 of hNLE

<400> 417

Ala His Cys Val

P680 PC00 Sequence Listing ST25.txt

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<210> 418

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 41-44 of hNLE

<400> 418

His Cys Val Ala

1

<210> 419

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 42-45 of hNLE

<400> 419

Cys Val Ala Asn

1

<210> 420

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 43-36 of hNLE

<400> 420

Val Ala Asn Val

1

<210> 421

<211> 4

<212> PRT

P680 PC00 Sequence Listing ST25.txt

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 44-47 of hNLE

<400> 421

Ala Asn Val Asn
1

<210> 422

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 45-48 of hNLE

<400> 422

Asn Val Asn Val
1

<210> 423

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 46-49 of hNLE

<400> 423

Val Asn Val Arg
1

<210> 424

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 48-51 of hNLE

P680 PC00 Sequence Listing ST25.txt

<400> 424

Val Arg Ala Val
1

<210> 425

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 49-52 of hNLE

<400> 425

Arg Ala Val Arg
1

<210> 426

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 50-53 of hNLE

<400> 426

Ala Val Arg Val
1

<210> 427

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 51-54 of hNLE

<400> 427

Val Arg Val Val
1

<210> 428

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 52-55 of hNLE

<400> 428

Arg Val Val Leu

1

<210> 429

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 55-58 of hNLE

<400> 429

Leu Gly Ala His

1

<210> 430

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 56-59 of hNLE

<400> 430

Gly Ala His Asn

1

<210> 431

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 57-60 of hNLE

<400> 431

Ala His Asn Leu

1

<210> 432

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 58-61 of hNLE

<400> 432

His Asn Leu Ser

1

<210> 433

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 59-62 of hNLE

<400> 433

Asn Leu Ser Arg

1

<210> 434

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 60-63 of hNLE

<400> 434

Leu Ser Arg Arg

1

<210> 435

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 61-64 of hNLE

<400> 435

Ser Arg Arg Glu

1

<210> 436

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 62-65 of hNLE

<400> 436

Arg Arg Glu Pro

1

<210> 437

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 63-66 of hNLE

<400> 437

Arg Glu Pro Thr

1

<210> 438

<211> 4

<212> PRT

P680 PC00 Sequence Listing ST25.txt

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 64-67 of hNLE

<400> 438

Glu Pro Thr Arg
1

<210> 439

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 65-68 of hNLE

<400> 439

Pro Thr Arg Gln
1

<210> 440

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 66-69 of hNLE

<400> 440

Thr Arg Gln Val
1

<210> 441

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 67-70 of hNLE

P680 PC00 Sequence Listing ST25.txt

<400> 441

Arg Gln Val Phe
1

<210> 442

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 68-71 of hNLE

<400> 442

Gln Val Phe Ala
1

<210> 443

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 69-72 of hNLE

<400> 443

Val Phe Ala Val
1

<210> 444

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 70-73 of hNLE

<400> 444

Phe Ala Val Gln
1

<210> 445

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 71-74 of hNLE

<400> 445

Ala Val Gln Arg

1

<210> 446

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 72-75 of hNLE

<400> 446

Val Gln Arg Ile

1

<210> 447

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 73-76 of hNLE

<400> 447

Gln Arg Ile Phe

1

<210> 448

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 74-77 of hNLE

<400> 448

Arg Ile Phe Glu
1

<210> 449

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 75-78 of hNLE

<400> 449

Ile Phe Glu Asp
1

<210> 450

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 76-79 of hNLE

<400> 450

Phe Glu Asp Gly
1

<210> 451

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 77-80 of hNLE

<400> 451

Glu Asp Gly Tyr

P680 PC00 Sequence Listing ST25.txt

1

<210> 452

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 78-81 of hNLE

<400> 452

Asp Gly Tyr Asp
1

<210> 453

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 80-83 of hNLE

<400> 453

Tyr Asp Pro Val
1

<210> 454

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 81-84 of hNLE

<400> 454

Asp Pro Val Asn
1

<210> 455

<211> 4

<212> PRT

P680 PC00 Sequence Listing ST25.txt

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 82-84 of hNLE

<400> 455

Pro Val Asn Leu
1

<210> 456

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 83-86 of hNLE

<400> 456

Val Asn Leu Leu
1

<210> 457

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 84-87 of hNLE

<400> 457

Asn Leu Leu Asn
1

<210> 458

<211> 4

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<223> Peptide fragment: amino acid residues 85-88 of hNLE

P680 PC00 Sequence Listing ST25.txt

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Leu Leu Asn Asp
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<210> 459

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 86-89 of hNLE

<400> 459

Leu Asn Asp Ile
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<210> 460

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 87-90 of hNLE

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Asn Asp Ile Val
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<210> 461

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 88-91 of hNLE

<400> 461

Asp Ile Val Ile
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<210> 462

P680 PC00 Sequence Listing ST25.txt

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<212> PRT

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<223> Peptide fragment: amino acid residues 89-92 of hNLE

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Ile Val Ile Leu
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<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 90-93 of hNLE

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Val Ile Leu Gln
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<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 91-94 of hNLE

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Ile Leu Gln Leu
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P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 92-95 of hNLE

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<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 93-96 of hNLE

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Gln Leu Asn Gly
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<210> 467

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 94-97 of hNLE

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Leu Asn Gly Ser
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<210> 468

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 95-98 of hNLE

<400> 468

Asn Gly Ser Ala

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<210> 469

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 96-99 of hNLE

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Gly Ser Ala Thr

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<210> 470

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 97-100 of hNLE

<400> 470

Ser Ala Thr Ile

1

<210> 471

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 471

Ala Thr Ile Asn

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<210> 472

<211> 4

<212> PRT

P680 PC00 Sequence Listing ST25.txt

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 99-102 of hNLE

<400> 472

Thr Ile Asn Pro
1

<210> 473

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 100-103 of hNLE

<400> 473

Ile Asn Pro Ser
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<210> 474

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 101-104 of hNLE

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Asn Pro Ser Val
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<210> 475

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 102-105 of hNLE

P680 PC00 Sequence Listing ST25.txt

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<210> 476

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 103-106 of hNLE

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Ser Val Ala Leu
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<210> 477

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 104-107 of hNLE

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Val Ala Leu Val
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<210> 478

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 105-108 of hNLE

<400> 478

Ala Leu Val Pro
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<210> 479

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 106-109 of hNLE

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Leu Val Pro Leu
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<210> 480

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 107-110 of hNLE

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Val Pro Leu Pro
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<210> 481

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 108-111 of hNLE

<400> 481

Pro Leu Pro Ala
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<210> 482

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

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<223> Peptide fragment: amino acid residues 109-112 of hNLE

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Leu Pro Ala Gln

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<210> 483

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 110-113 of hNLE

<400> 483

Pro Ala Gln Gly

1

<210> 484

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 111-114 of hNLE

<400> 484

Ala Gln Gly Arg

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<210> 485

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 112-115 of hNLE

<400> 485

Gln Gly Arg Arg

P680 PC00 Sequence Listing ST25.txt

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<210> 486

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 113-116 of hNLE

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Gly Arg Arg Leu

1

<210> 487

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 114-117 of hNLE

<400> 487

Arg Arg Leu Gly

1

<210> 488

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 115-118 of hNLE

<400> 488

Arg Leu Gly Asn

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<210> 489

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 116-119 of hNLE

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Leu Gly Asn Gly
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<210> 490

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 117-120 of hNLE

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Gly Asn Gly Val
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<210> 491

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 118-121 of hNLE

<400> 491

Asn Gly Val Gln
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<210> 492

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 119-121 of hNLE

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Gly Val Gln Cys

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<210> 493

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 120-123 of hNLE

<400> 493

Val Gln Cys Leu

1

<210> 494

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 121-124 of hNLE

<400> 494

Gln Cys Leu Ala

1

<210> 495

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 122-125 of hNLE

<400> 495

Cys Leu Ala Met

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P680 PC00 Sequence Listing ST25.txt

<210> 496

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 123-126 of hNLE

<400> 496

Leu Ala Met Gly
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<210> 497

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 124-127 of hNLE

<400> 497

Ala Met Gly Trp
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<210> 498

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 125-128 of hNLE

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Met Gly Trp Gly
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<210> 499

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

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Gly Trp Gly Leu
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<210> 500

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 127-130 of hNLE

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Trp Gly Leu Leu
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<210> 501

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 47-50 of hNLE

<400> 501

Asn Val Arg Ala
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<210> 502

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 128-131 of hNLE

<400> 502

P680 PC00 Sequence Listing ST25.txt

Gly Leu Leu Gly
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<210> 503

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 129-132 of hNLE

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Leu Leu Gly Arg
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<210> 504

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 130-133 of hNLE

<400> 504

Leu Gly Arg Asn
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<210> 505

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 131-134 of hNLE

<400> 505

Gly Arg Asn Arg
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<210> 506

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 132-135 of hNLE

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Arg Asn Arg Gly
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<210> 507

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 133-136 of hNLE

<400> 507

Asn Arg Gly Ile
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<210> 508

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 134-137 of hNLE

<400> 508

Arg Gly Ile Ala
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<210> 509

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 135-138 of hNLE

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Gly Ile Ala Ser
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<210> 510

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 136-139 of hNLE

<400> 510

Ile Ala Ser Val
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<210> 511

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 137-140 of hNLE

<400> 511

Ala Ser Val Leu
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<210> 512

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 138-141 of hNLE

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Ser Val Leu Gln
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P680 PC00 Sequence Listing ST25.txt

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<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 139-142 of hNLE

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Val Leu Gln Glu
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<210> 514

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 140-143 of hNLE

<400> 514

Leu Gln Glu Leu
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<210> 515

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 141-144 of hNLE

<400> 515

Gln Glu Leu Asn
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<210> 516

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 142-145 of hNLE

<400> 516

Glu Leu Asn Val

1

<210> 517

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 143-146 of hNLE

<400> 517

Leu Asn Val Thr

1

<210> 518

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 145-148 of hNLE

<400> 518

Val Thr Val Val

1

<210> 519

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 146-149 of hNLE

P680 PC00 Sequence Listing ST25.txt

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Thr Val Val Thr
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<210> 520

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 147-150 of hnLE

<400> 520

Val Val Thr Ser
1

<210> 521

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 148-151 of hnLE

<400> 521

Val Thr Ser Leu
1

<210> 522

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 149-152 of hnLE

<400> 522

Thr Ser Leu Cys
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<210> 523

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 150-153 of hNLE

<400> 523

Ser Leu Cys Arg

1

<210> 524

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 151-154 of hNLE

<400> 524

Leu Cys Arg Arg

1

<210> 525

<211> 4

<212> PRT

<213> Artificial sequence

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<400> 525

Cys Arg Arg Ser

1

<210> 526

<211> 4

<212> PRT

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P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 153-156 of hNLE

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Arg Arg Ser Asn

1

<210> 527

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 154-157 of hNLE

<400> 527

Arg Ser Asn Val

1

<210> 528

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 155-158 of hNLE

<400> 528

Ser Asn Val Cys

1

<210> 529

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 157-160 of hNLE

<400> 529

Val Cys Thr Leu

1

P680 PC00 Sequence Listing ST25.txt

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<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 158-161 of hNLE

<400> 530

Cys Thr Leu Val
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<210> 531

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 159-162 of hNLE

<400> 531

Thr Leu Val Arg
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<210> 532

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 160-163 of hNLE

<400> 532

Leu Val Arg Gly
1

<210> 533

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 161-164 of hNLE

<400> 533

Val Arg Gly Arg
1

<210> 534

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 162-165 of hNLE

<400> 534

Arg Gly Arg Arg
1

<210> 535

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 163-166 of hNLE

<400> 535

Gly Arg Arg Gly
1

<210> 536

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 164-167 of hNLE

P680 PC00 Sequence Listing ST25.txt

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Arg Arg Gly Arg
1

<210> 537

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 165-166 of hNLE

<400> 537

Arg Gly Arg Ile
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<210> 538

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 166-169 of hNLE

<400> 538

Gly Arg Ile Ser
1

<210> 539

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 167-170 of hNLE

<400> 539

Arg Ile Ser Gln
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<210> 540

P680 PC00 Sequence Listing ST25.txt

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 168-171 of hNLE

<400> 540

Ile Ser Gln Gly
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<210> 541

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 169-172 of hNLE

<400> 541

Ser Gln Gly Asp
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<210> 542

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 170-173 of hNLE

<400> 542

Gln Gly Asp Ser
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<210> 543

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 171-174 of hNLE

<400> 543

Gly Asp Ser Gly
1

<210> 544

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 172-174 of hNLE

<400> 544

Asp Ser Gly Thr
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<210> 545

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 173-176 of hNLE

<400> 545

Ser Gly Thr Pro
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<210> 546

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 177-180 of hNLE

<400> 546

P680 PC00 Sequence Listing ST25.txt

Leu Val Cys Asn
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<210> 547

<211> 4

<212> PRT

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<223> Peptide fragment: amino acid residues 178-181 of hNLE

<400> 547

Val Cys Asn Gly
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<210> 548

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 179-182 of hNLE

<400> 548

Cys Asn Gly Leu
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<210> 549

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 180-183 of hNLE

<400> 549

Asn Gly Leu Ile
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<210> 550

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 181-184 of hNLE

<400> 550

Gly Leu Ile His
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<210> 551

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 182-185 of hNLE

<400> 551

Leu Ile His Gly
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<210> 552

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 183-186 of hNLE

<400> 552

Ile His Gly Ile
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<210> 553

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 184-187 of hNLE

<400> 553

His Gly Ile Ala
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<210> 554

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 185-188 of hNLE

<400> 554

Gly Ile Ala Ser
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<210> 555

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 186-189 of hNLE

<400> 555

Ile Ala Ser Phe
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<210> 556

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 187-190 of hNLE

<400> 556

Ala Ser Phe Val
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P680 PC00 Sequence Listing ST25.txt

<210> 557

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 188-191 of hNLE

<400> 557

Ser Phe Val Arg
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<210> 558

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 189-192 of hNLE

<400> 558

Phe Val Arg Gly
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<210> 559

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 190-193 of hNLE

<400> 559

Val Arg Gly Gly
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<210> 560

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 191-194 of hNLE

<400> 560

Arg Gly Gly Cys
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<210> 561

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 192-195 of hNLE

<400> 561

Gly Gly Cys Ala
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<210> 562

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 193-196 of hNLE

<400> 562

Gly Cys Ala Ser
1

<210> 563

<211> 4

<212> PRT

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<220>

<223> Peptide fragment: amino acid residues 194-197 of hNLE

<400> 563

P680 PC00 Sequence Listing ST25.txt

Cys Ala Ser Gly
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<210> 564

<211> 4

<212> PRT

<213> Artificial sequence

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<223> Peptide fragment: amino acid residues 195-198 of hNLE

<400> 564

Ala Ser Gly Leu
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<210> 565

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 196-199 of hNLE

<400> 565

Ser Gly Leu Tyr
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<210> 566

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 197-200 of hNLE

<400> 566

Gly Leu Tyr Pro
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<210> 567

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 198-201 of hNLE

<400> 567

Leu Tyr Pro Asp
1

<210> 568

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 199-202 of hNLE

<400> 568

Tyr Pro Asp Ala
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<210> 569

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 200-203 of hNLE

<400> 569

Pro Asp Ala Phe
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<210> 570

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 201-204 of hNLE

<400> 570

Asp Ala Phe Ala
1

<210> 571

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 202-205 of hNLE

<400> 571

Ala Phe Ala Pro
1

<210> 572

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 203-206 of hNLE

<400> 572

Phe Ala Pro Val
1

<210> 573

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 204-207 of hNLE

<400> 573

Ala Pro Val Ala
1

P680 PC00 Sequence Listing ST25.txt

<210> 574

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 205-208 of hNLE

<400> 574

Pro Val Ala Gln
1

<210> 575

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 206-209 of hNLE

<400> 575

Val Ala Gln Phe
1

<210> 576

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 207-210 of hNLE

<400> 576

Ala Gln Phe Val
1

<210> 577

<211> 4

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 208-211 of hNLE

<400> 577

Gln Phe Val Asn
1

<210> 578

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 209-212 of hNLE

<400> 578

Phe Val Asn Trp
1

<210> 579

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 210-212 of hNLE

<400> 579

Val Asn Trp Ile
1

<210> 580

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 211-214 of hNLE

<400> 580

P680 PC00 Sequence Listing ST25.txt

Asn Trp Ile Asp
1

<210> 581

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 212-215 of hNLE

<400> 581

Trp Ile Asp Ser
1

<210> 582

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 213-216 of hNLE

<400> 582

Ile Asp Ser Ile
1

<210> 583

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 214-217 of hNLE

<400> 583

Asp Ser Ile Ile
1

<210> 584

<211> 4

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 214-218 of hNLE

<400> 584

Ser Ile Ile Gln
1

<210> 585

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 43-46 of pHBP

<400> 585

Pro Arg Phe Val
1

<210> 586

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 190-194 of pHBP

<400> 586

Leu Arg Arg Arg
1

<210> 587

<211> 4

<212> PRT

<213> Artificial sequence

<220>

P680 PC00 Sequence Listing ST25.txt

<223> Peptide fragment: amino acid residues 217-220 of PHBP

<400> 587

Asn Pro Pro Ala
1

<210> 588

<211> 221

<212> PRT

<213> Sus sp.

<400> 588

Ile Val Gly Gly Arg Arg Ala Gln Pro Gln Glu Phe Pro Phe Leu Ala
1 5 10 15

Ser Ile Gln Lys Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His
20 25 30

Pro Arg Phe Val Leu Thr Ala Ala Ser Cys Phe Arg Gly Lys Asn Ser
35 40 45

Gly Ser Ala Ser Val Val Leu Gly Ala Tyr Asp Leu Arg Gln Gln Glu
50 55 60

Gln Ser Arg Gln Thr Phe Ser Ile Arg Ser Ile Ser Gln Asn Gly Tyr
65 70 75 80

Asp Pro Arg Gln Asn Leu Asn Asp Val Leu Leu Leu Gln Leu Asp Arg
85 90 95

Glu Ala Arg Leu Thr Pro Ser Val Ala Leu Val Pro Leu Pro Pro Gln
100 105 110

Asn Ala Thr Val Glu Ala Gly Thr Asn Cys Gln Val Glu Ala Gly Trp
115 120 125

Gly Thr Gln Arg Leu Arg Arg Leu Phe Ser Arg Phe Pro Arg Val Leu
130 135 140

Asn Val Thr Val Thr Ser Asn Pro Cys Leu Pro Arg Asp Met Cys Ile
145 150 155 160

Gly Val Phe Ser Arg Arg Gly Arg Ile Ser Gln Gly Asp Arg Gly Thr
165 170 175

Pro Leu Val Cys Asn Gly Leu Ala Gln Gly Val Ala Ser Phe Leu Arg
180 185 190

P680 PC00 Sequence Listing ST25.txt

Arg Arg Phe Arg Arg Ser Ser Gly Phe Phe Thr Arg Val Ala Leu Phe
195 200 205

Arg Asn Trp Ile Asp Ser Val Leu Asn Asn Pro Pro Ala
210 215 220

<210> 589

<211> 267

<212> PRT

<213> Homo sapiens

<400> 589

Met Thr Leu Gly Arg Arg Leu Ala Cys Leu Phe Leu Ala Cys Val Leu
1 5 10 15

Pro Ala Leu Leu Leu Gly Gly Thr Ala Leu Ala Ser Glu Ile Val Gly
20 25 30

Gly Arg Arg Ala Arg Pro His Ala Trp Pro Phe Met Val Ser Leu Gln
35 40 45

Leu Arg Gly Gly His Phe Cys Gly Ala Thr Leu Ile Ala Pro Asn Phe
50 55 60

Val Met Ser Ala Ala His Cys Val Ala Asn Val Asn Val Arg Ala Val
65 70 75 80

Arg Val Val Leu Gly Ala His Asn Leu Ser Arg Arg Glu Pro Thr Arg
85 90 95

Gln Val Phe Ala Val Gln Arg Ile Phe Glu Asn Gly Tyr Asp Pro Val
100 105 110

Asn Leu Leu Asn Asp Ile Val Ile Leu Gln Leu Asn Gly Ser Ala Thr
115 120 125

Ile Asn Ala Asn Val Gln Val Ala Gln Leu Pro Ala Gln Gly Arg Arg
130 135 140

Leu Gly Asn Gly Val Gln Cys Leu Ala Met Gly Trp Gly Leu Leu Gly
145 150 155 160

Arg Asn Arg Gly Ile Ala Ser Val Leu Gln Glu Leu Asn Val Thr Val
165 170 175

Val Thr Ser Leu Cys Arg Arg Ser Asn Val Cys Thr Leu Val Arg Gly
180 185 190

P680 PC00 Sequence Listing ST25.txt

Arg Gln Ala Gly Val Cys Phe Gly Asp Ser Gly Ser Pro Leu Val Cys
195 200 205

Asn Gly Leu Ile His Gly Ile Ala Ser Phe Val Arg Gly Gly Cys Ala
210 215 220

Ser Gly Leu Tyr Pro Asp Ala Phe Ala Pro Val Ala Gln Phe Val Asn
225 230 235 240

Trp Ile Asp Ser Ile Ile Gln Arg Ser Glu Asp Asn Pro Cys Pro His
245 250 255

Pro Arg Asp Pro Asp Pro Ala Ser Arg Thr His
260 265

<210> 590

<211> 678

<212> DNA

<213> Homo sapiens

<400> 590

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caaggcaggc acttctgcgg gggtagccctg atccatgcc	gcttcgtgat gaccgcggcc	120
agctgcttcc aaagccagaa ccccggggtt agcaccgtg	tgctgggtgc ctatgacctg	180
aggcggcggg agaggcagtc ccgccagacg ttttccatca	gcagcatgag cgagaatggc	240
tacgaccccc agcagaacct gaacgacctg atgctgcttc	agctggaccg tgaggccaac	300
ctcaccagca gcgtgacgat actgccactg cctctgcaga	acgccacggt ggaagccggc	360
accagatgcc aggtggcccg ctggggggagc cagcgcagtg	gggggcgtct ctcccgtttt	420
cccaggttcg tcaacgtgac tgtgaccccc gaggaccagt	gtcgcccaa caacgtgtgc	480
accggtgtgc tcaccgcgcg cggtggcatc tgcaatggg	acgggggcac cccctcgtc	540
tgcgagggcc tggccacgcg cgtggcctcc ttttcctgg	ggccctgtgg ccgaggccct	600
gacttcttca cccgagtggc gctcttccga gactggatcg	atggcgtttt aaacaatccg	660
ggaccggggc cagcctag		678

<210> 591

<211> 660

<212> DNA

<213> Sus sp.

<400> 591

attgtggg	gcaggagg	ccagccgcag	gagttcccg	ttctggcctc	cattcagaaa	60
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P680 PC00 Sequence Listing ST25.txt

caagggaggc ccttttgcg cggagccctg gtccatcccc gtttcgtcct gacagcggcc	120
agctgtttcc gtggcaagaa cagcgggaagt gcctctgtgg tgctgggggc ctatgacctg	180
aggcagcagg agcagtcccc gcagcattct ccatcaggag catcagccag aacggctatg	240
ayccccggca gaatctgaac gatgtgctgc tgctgcagct ggaccgtgag gccgactcac	300
ccccagtgtg gccctggtac cgctgcccc gcagaatgcc acagtggaag ctggcaccaa	360
ctgccaagtt gcgggctggg ggaccagcg gcttaggagg cttttctccc gtttccaag	420
ggtgtcaat gtcaccgtga cctcaaacc gtgtctcccc agagcatgtg cattggtgtc	480
ttcagccgcc ggggcccgcag cagccaggga gacagaggca ccccccctgt ctgcaacggc	540
ctggcgcagg gcgtggcctc cttcctccgg aggcgtttcc gcaggagctc cggcttcttc	600
accgcgtgg cgctcttcag aaattggatt gattcagttc tcaacaacc gccggcctga	660

<210> 592

<211> 750

<212> DNA

<213> Homo sapiens

<400> 592

ctcgagaaaa gaattgtggg tggccgtcgt gcccgtcctc acgcttggcc gtttatgggtg	60
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atgtccgcgg cactctgcgt agcaaacgtt aacgttcgtg cgggtgcgtgt ggttctgggt	180
gctcataacc tgtctcgtcg agaaccgacc cgtcaagtgt tcgccgtgca gcgcatcttc	240
gaaaacggct acgacccggt taacctgctg aacgacatcg tgattctgca actgaacgga	300
tccgccacca tcaacgcaa cggtgcaagtg gcacaactgc cagcccaagg tcgccgcctg	360
ggaaacggag tacaatgcct ggctatgggt tggggcctgc tcggccgtaa ccgtgggtatc	420
gctagcgttc tgcaagaact gaacgtgacc gtggttacct ccctgtgtcg acgctctaac	480
gtatgcactc tgggtgcgcgg ccgccaggct ggcgtttgtt tcggtgactc cggtagccccg	540
ctggtttgca acggtctgat ccatgggtatt gcctccttcg ttcgtgggtg ttgcgctct	600
ggcctgtacc cggatgcatt tgccccggtg gcacagtttg ttaactggat cgactctatc	660
attcagagat ccgaagacaa cccgtgtccg caccacgtg atccagatcc ggcctccaga	720
acacaccatc accatcacca ttaggaattc	750

<210> 593

<211> 25

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 20-44 of pHBP

<400> 593

Lys Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His Pro Arg Phe
1 5 10 15

Val Leu Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 594

<211> 78

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 96-173 of pHBP

<400> 594

Arg Glu Ala Arg Leu Thr Pro Ser Val Ala Leu Val Pro Leu Pro Pro
1 5 10 15

Gln Asn Ala Thr Val Glu Ala Gly Thr Asn Cys Gln Val Ala Gly Trp
20 25 30

Gly Thr Gln Arg Leu Arg Arg Leu Phe Ser Arg Phe Pro Arg Val Leu
35 40 45

Asn Val Thr Val Thr Ser Asn Pro Cys Leu Pro Arg Asp Met Cys Ile
50 55 60

Gly Val Phe Ser Arg Arg Gly Arg Ile Ser Gln Gly Asp Arg
65 70 75

<210> 595

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of hHBP with mutations N20K,Q44R

<400> 595

P680 PC00 Sequence Listing ST25.txt

Lys Gln Gly Arg His Phe Cys Gly Gly Ala Leu Ile His Ala Arg Phe
1 5 10 15

Val Met Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 596

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of hHBP with mutations N20K,H24P,Q44R

<400> 596

Lys Gln Gly Arg Pro Phe Cys Gly Gly Ala Leu Ile His Ala Arg Phe
1 5 10 15

Val Met Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 597

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of hHBP with mutations N20K,A33P,Q44R

<400> 597

Lys Gln Gly Arg His Phe Cys Gly Gly Ala Leu Ile His Pro Arg Phe
1 5 10 15

Val Met Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 598

<211> 25

<212> PRT

<213> Artificial sequence

P680 PC00 Sequence Listing ST25.txt

<220>

<223> Peptide fragment: amino acid residues 20-44 of hHBP with mutations N20K,H24P,A33P,Q44R

<400> 598

Lys Gln Gly Arg Pro Phe Cys Gly Gly Ala Leu Ile His Pro Arg Phe
1 5 10 15

Val Met Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 599

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Reversed sequence: amino acid residues 20-44 of pHBP.

<400> 599

Arg Phe Cys Ser Ala Ala Thr Leu Val Phe Arg Pro His Val Leu Ala
1 5 10 15

Gly Ala Cys Phe Pro Arg Gly Gln Lys
20 25

<210> 600

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of pHBP with mutation K20N

<400> 600

Asn Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His Pro Arg Phe
1 5 10 15

Val Leu Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 601

<211> 25

P680 PC00 Sequence Listing ST25.txt

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of pHBP with mutation R44Q

<400> 601

Lys Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His Pro Arg Phe
1 5 10 15

Val Leu Thr Ala Ala Ser Cys Phe Gln
20 25

<210> 602

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of pHBP with mutations K20N,R44Q

<400> 602

Asn Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His Pro Arg Phe
1 5 10 15

Val Leu Thr Ala Ala Ser Cys Phe Gln
20 25

<210> 603

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of pHBP with mutation R34Q

<400> 603

Lys Gln Gly Arg Pro Phe Cys Ala Gly Ala Leu Val His Pro Gln Phe
1 5 10 15

Val Leu Thr Ala Ala Ser Cys Phe Arg
20 25

<210> 604

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment consisting of amino acid residues 20-44 of human neutrophil elastase

<400> 604

Leu Arg Gly Gly His Phe Cys Gly Ala Thr Leu Ile Ala Pro Asn Phe
1 5 10 15

Val Met Ser Ala Ala His Cys Val Ala
20 25

<210> 605

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment consisting of amino acid residues 20-44 of murine neutrophil elastase

<400> 605

Arg Arg Gly Gly His Phe Cys Gly Ala Thr Leu Ile Ala Arg Asn Phe
1 5 10 15

Val Met Ser Ala Val His Cys Val Asn
20 25

<210> 606

<211> 25

<212> PRT

<213> Artificial sequence

<220>

<223> Peptide fragment: amino acid residues 20-44 of A. gambiae EAA01962

P680 PC00 Sequence Listing ST25.txt

<400> 606

Arg Ser Arg Glu Tyr Arg Cys Gly Gly Thr Leu Val Ser Gln Arg Tyr
1 5 10 15

Ile Leu Thr Ala Ala Ser Cys Ala Ala
20 25

<210> 607

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 607

Lys Gln Gly Arg Pro
1 5

<210> 608

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 608

Lys Gln Gly Lys Pro
1 5

<210> 609

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 609

Arg Gln Gly Arg Pro

P680 PC00 Sequence Listing ST25.txt

1

5

<210> 610

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 610

Arg Gln Gly Lys Pro
1 5

<210> 611

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 611

Asn Gln Gly Arg His
1 5

<210> 612

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> R1 amino acid sequence (claim 2)

<400> 612

Asn Gln Gly Lys His
1 5

<210> 613

<211> 5

<212> PRT

P680 PC00 Sequence Listing ST25.txt

<213> Artificial sequence

<220>

<223> R19 amino acid sequences (claim 21)

<400> 613

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